# INTERNATIONAL SEARCH REPORT

International Application No
PCT/EP2004/014372

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 H04B1/707 G01S1/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 H04B G01S

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)
EPO-Internal, WPI Data, PAJ, INSPEC

C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category ° | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|---|---|---|
| X | CHAR-DIR CHUNG: "DIFFERENTIALLY COHERENT DETECTION TECHNIQUE FOR DIRECT-SEQUENCE CODE ACQUISITION IN A RAYLEIGH FADING MOBILE CHANNEL" IEEE TRANSACTIONS ON COMMUNICATIONS, IEEE INC. NEW YORK, US, vol. 43, no. 2/4, PART 2, 1 February 1995 (1995-02-01), pages 1116-1126, XP000502602 ISSN: 0090-6778 abstract figure 1 page 1117, left-hand column, paragraph II page 1122, right-hand column, line 2 - page 1123, left-hand column, line 26 ----- -/-- | 1,3,8, 12,13, 15-18, 22,24, 32,35,38 |

[X] Further documents are listed in the continuation of box C.

[X] Patent family members are listed in annex.

° Special categories of cited documents :

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| Date of the actual completion of the international search | Date of mailing of the international search report |
|---|---|
| 18 February 2005 | 24/02/2005 |

| Name and mailing address of the ISA | Authorized officer |
|---|---|
| European Patent Office, P.B. 5818 Patentlaan 2<br>NL - 2280 HV Rijswijk<br>Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,<br>Fax: (+31-70) 340-3016 | Amadei, D |

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

| Category ° | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
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| X | EP 1 289 163 A (BROADCOM CORPORATION)<br>5 March 2003 (2003-03-05)<br><br>abstract<br>column 2, paragraph 10<br>column 10, paragraph 44<br>column 12, paragraph 55 - paragraph 57<br>column 12, paragraph 59<br>column 13, paragraph 61<br>figures 5,7,12-14 | 1-7,<br>9-12,<br>14-16,<br>18,19,<br>22,<br>24-31,<br>33-35,38 |
| X | WO 00/49720 A (JOUTSENSALO JYRKI<br>;JYVAESKYLAEN TEKNOLOGIAKESKUS (FI);<br>RISTANIEMI) 24 August 2000 (2000-08-24)<br><br>abstract<br>page 8, paragraph 2<br>page 18, line 16 - line 18<br>page 27, line 16 - page 28, line 15<br>page 29, paragraph 13 - paragraph 17 | 1,3,6,<br>10-12,<br>14-16,<br>18-24,<br>26,<br>29-31,<br>33-38 |
| X | ZARRABIZADEH M H ET AL: "A DIFFERENTIALLY<br>COHERENT PN CODE ACQUISITION RECEIVER FOR<br>CDMA SYSTEMS"<br>IEEE TRANSACTIONS ON COMMUNICATIONS, IEEE<br>INC. NEW YORK, US,<br>vol. 45, no. 11,<br>1 November 1997 (1997-11-01), pages<br>1456-1465, XP000751361<br>ISSN: 0090-6778<br>abstract<br>page 1456, right-hand column, line 41 -<br>line 47<br>page 1464, left-hand column, line 11 -<br>line 14<br>figures 1A,1B,2 | 1,3,6-8,<br>10-12,<br>14-16,<br>18,19,<br>22,24,<br>26,<br>29-31,<br>33-35,38 |
| X | JOUTSENSALO J ET AL: "DELAY ESTIMATION IN<br>CDMA SYSTEM BY DIFFERENTIALLY COHERENT<br>EIGENANALYSIS"<br>INTERNATIONAL CONFERENCE ON ELECTRONICS,<br>CIRCUITS AND SYSTEMS, XX, XX,<br>vol. 3, 5 September 1999 (1999-09-05),<br>pages 1279-1282, XP002935518<br>abstract<br>page 1279, paragraph 1<br>page 1279, paragraph 2<br>page 1250, paragraph 3 | 1,24 |

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Information on patent family members

International Application No
PCT/EP2004/014372

| Patent document cited in search report | Publication date | Patent family member(s) | Publication date |
|---|---|---|---|
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| | | EP 1289163 A2 | 05-03-2003 |
| WO 0049720 A | 24-08-2000 | AU 2674900 A | 04-09-2000 |
| | | WO 0049720 A2 | 24-08-2000 |